



Flight Report

Operation Ice Bridge Spring 2012

UAF Alaska Flight No 3
Mission Plan: St. Elias Range

Flight Report Summary

Aircraft	DHC-3 Otter
Flight Number	DHC3-2
Flight Request	12M014
Flight Hours	9.3
Take off time	10:00:00.00 Z from Palmer
Landing time	21:00:00.00 Z at Palmer (with fuel stops at Yakutat and Gulkana)
Date	Sun, March 18, 2012
Purpose of Flight	LiDAR surveys of glaciers within the St. Elias Range, Alaska.
Aircraft Status	Airworthy.
Sensor Status	operational.
Significant Issues	none.
Accomplishments	<ul style="list-style-type: none">• LiDAR centerline profile of Guyot, Tsaa, Malaspina, Yahtse, Bering Glaciers.• Conducted one pass over runway at Palmer airport for LiDAR instrument calibration.• DMS photogrammetry from 12,500 ft of Harvard, Columbia, Miles and Bering Glaciers.

Science Data Report Summary

This mission performed LiDAR surveys of glaciers within the St. Elias Range, Alaska.

Geographic keywords: (St Elias Range, Alaska)
Repeat Mission: yes

Instrument	Instrument Operational		Data Volume	Instrument Issues
	Target area	Entire Flight		
UAF LiDAR	Yes	YES	1 GB	None
GPS	Yes	YES	50 MB	None
IMU	Yes	Yes	1 GB	None

Mission Log (Chris Larsen)

Weather conditions were near perfect, with no wind or chop, and excellent visibility. Occasionally, fog and low lying clouds obscured the glacier surface.

Individual instruments on board the aircraft:

LiDAR: The UAF LiDAR systems worked well.

GPS: System worked normally. No problems.

IMU: System worked well. No issues.

DMS: System worked well. No issues.

